

□ Apparatus for retreating strip defatting **cleaning** solution using tubular **membrane**.

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NOVELTY - An apparatus for retreating a strip defatting cleaning solution using a tubular membrane is provided to continuously recovering steel cleaning solution for recycling by combining and removing fractions having relatively large size particles and iron powder in a waste cleaning solution and filtering fine contaminated particles with the tubular membrane.

DETAILED DESCRIPTION - The apparatus consists of a dissolved air floatation pre-treatment part in which a lipophilic agglomeration plate is installed, wherein the dissolved air floatation pre-treatment part separates a waste cleaning solution in which fractions flown in are mixed with suspension by floating with pressurized **water mixed** with air ejected from a pressurizing tank; an electric charge agglomeration pre-treatment part separating contaminants by a difference of specific gravity by equipping with a plurality of electrode plates connected with an output of AC power generating means so that polarities are alternately reversed, thereby increasing particle sizes of the waste cleaning solution flown in from the dissolved air floatation pre-treatment part; a tubular membrane for separating the treated water which is flown in through a circulation vessel from the electric charge agglomeration pre-treatment part from filtrate and concentrate.
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